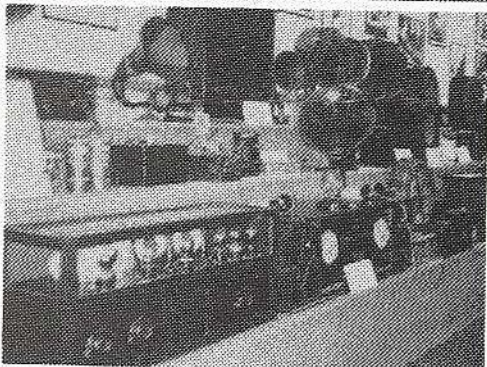
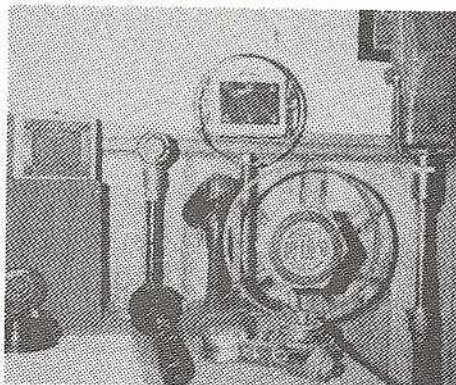


88/12 01



B·A·R·G NEWS

DEC/88



© Monthly Newsletter of the
Ballarat Amateur Radio Group

98/12 02

BALLARAT AMATEUR RADIO GROUP INCORPORATED OFFICERS 1988-1989

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			HOME	BUSINESS
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Memb. Representative:	NEAL DAVIDSON	VK3 KQQ	35 9612	

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	DICK ANTOZIEWICZ	VK3 AEX	32 3273	31 1818
	GEOFF SMITH	VK3 ADB	33 2112	
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	MAURIE BATT	VK3 XEX	42 2245	
	PHIL SEDDON	VK3 AQM	31 5220	
	MURRAY FELSTEAD	VK3 AAI	41 2234	

B.A.R.G. meets on the LAST FRIDAY in every month except December at the Ballarat Education Centre, Hopetoun St., Ballarat at 7.30 p.m.

Committee meetings are held at the Education Centre on the Wednesday two weeks prior to the Club meeting at 7.30 p.m. Executive committee members are expected to attend and any club member with business for discussion is welcome.

All correspondence to: The Secretary, BARG Inc., P.O. Box 216E, Ballarat East, 3350.
Applications for Awards to: Maurie Batt, RSD, Rokewood Junction, 3351.



CNR. RING RD. & WESTERN HWY BALLARAT
(OPEN 10AM - 5 PM 7 DAYS A WEEK)

FEATURES

- GRAMOPHONES • VINTAGE RADIOS • VISITORS PARTICIPATION
- MEMORABILIA • AUDIO DISPLAYS • DEMONSTRATIONS • CRYSTAL SETS

The "Orpheus Radio Museum" is operated by Richard and Sonja Wilson.
The collection includes their private collection, the 3BA collection and other items on loan to the museum.
The museum is run with the idea of preserving the history of radio in Australia and making it accessible to the public.
If anyone has any information or items of interest to the museum, would they please contact, or write to, the "Orpheus Radio Museum" RSD B98, Ballarat 3352. Telephone (053) 34 2513.
Let the public enjoy your piece of Radio History.

98/12 03

BALLARAT AMATEUR RADIO GROUP MAGAZINE

FEBRUARY: PRESIDENTS REPORT.

For those of you not usually on our mailing list we hope that you enjoy this copy of our magazine, which includes some previous articles and information about our club. We hope you could find time to come along on the last Friday each month and if you wish to join us you will be most welcome. There are many age groups in the club and each has something to offer. Perhaps you have not dusted off the rig or rigs lately so why not get onto the bands again and add to the enthusiasm of amateur radio in this district at least.

I attended a meeting in Bolac at the end of 1988 of the Wireless Institute Western Zone but infact it was a non-entity as there was not even a quorum so although the drive was quite pleasant and gave the car a bit of a blow out, it was really a waste of time. Perhaps that latter comment is also applicable to what the Western Zone does, as for the life of me I still cannot see its function, when any business could be discussed on the air-waves on Monday nights when they have a net. I am sure a lot of work is done by their committee in collating what is going on, and my comments do not take away from their dedication. Nevertheless, if from this whole zone there cannot be enough at a meeting which is only three or four times a year, there is something wrong.

Remember we are also running the February net on Monday evenings and it is mainly on the Mt. William repeater as novices now are able to use two metres.

At our last meeting we discussed how we could extend the club's services and there were two points made:

1. That perhaps we have a lot of text books between us and that we might like to submit a list that members would be happy to lend to those doing examinations or those doing experiments, or infact contribute to a central library; but the location of this might be a problem, as one should have easy access and preferably we should not be disturbing someone all the time at their private residence.
2. There might be test equipment amongst us and although ones expensive gear perhaps we could have some sort of list that is available to the responsible members.

We have guest speakers coming up this year and we hope that we shall hear about the bionic ear, the gold mine up there at Stawell and I might have introduced an idea that we have a talk on the non electric computers, that is, the old fashioned slide rules. More of that later.

To members and others, I hope you enjoy the magazine and might introduce yourselves on the airwaves or at the meetings as our hobby may need strength in numbers sometime, and new ideas to chew on would not be a bad idea.

Have a healthy 1989 as that must be the basis of what else you may desire.

John
73 VX3CFH.

88/12 04

MINUTES OF GENERAL MEETING HELD 25th NOVEMBER.1988.

MEETING OPENED at 8.00pm by President John CFH with 28 members present.

APOLOGIES VK3 AXH,DOK,XEX.DS,KIT,CUH,NIZ,SE.

MINUTES as printed and circulated in News Letter confirmed. PUW/BNC.

CORRESPONDENCE. Ballarat Courier requesting assistance for Fun Run.
WIA re Club and Zone Forum on 3rd December.
Moorabbin DRC invitation to BBQ after Forum.

TREASURERS REPORT General a/c \$313.25. VS&L a/c \$3448.46.
Accounts for \$103.00 passed for payment. KGL/KQF.

HAMVENTION REPORT Kevin WN the Hamvention Convener gave a full report
on another very successful Hamvention.
A vote of thanks to Kevin was carried with acclamation.

QSL BUREAU. Jeff PAP reported that 242 cards were sent out and 164 received.

CLUB NET Fred KQF stated that the net would not be held over the holiday
period but the frequency would be manned for a chat if desired.

EDUCATION A novice course held under the auspices of BRACE will be
conducted in February if there are enough starters.

WICEN. Gordon PUW moved seconded by Geoff ADB that the Club purchase
3 WICEN Co-ordinators manuals at \$15.00 each and pay deposits on
20 operators manuals. carried.

GENERAL BUSINESS. Kevin WN suggested that the club might subscribe to
a couple of overseas technical magazines,after discussion
it was decided to see what is available and bring the
subject up again in february.

President John asked for feed back from members on
'WHAT DO YOU WANT FROM YOUR CLUB'.Any suggestions that
will improve the club will be welcomed.

MEETING CLOSED. There being no further business President John wished
all present a very happy Christmes and closed the
meeting at 9.05 pm.The members then enjoyed a supper
of Pies,pasties a sausage rolls.

#####

NEXT BARG MEETING on friday 24th February at Education Centre. 7.30pm.

NEXT WIA WESTERN ZONE MEETING Lake Bolac Hotel.1.30pm. 18th March.

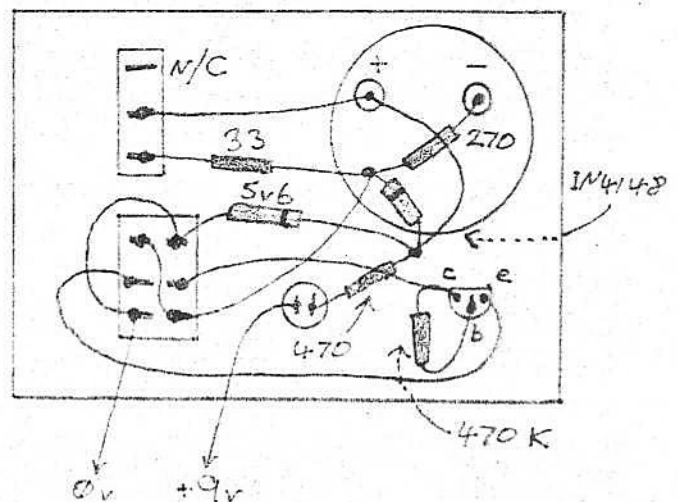
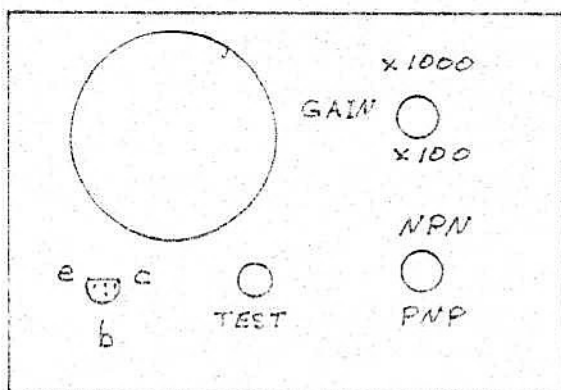
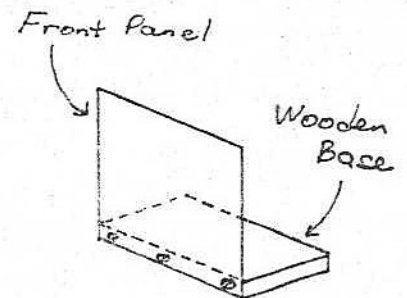
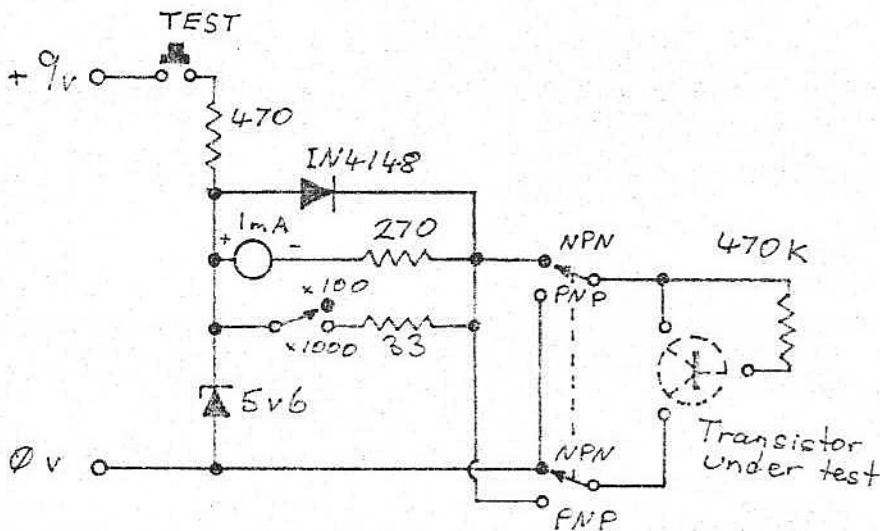
88/12 05

TRANSISTOR TESTER by VK3MBO

This simple circuit is one I have found extremely useful in determining whether used transistors are OK. I am continually salvaging components from electronic equipment others have thrown away, and this is where the transistor tester proves invaluable. It will show whether a transistor is an NPN or PNP type as well as displaying the gain in Beta.

This later feature is useful when two transistors have to be matched, such as in an oscillator circuit.

The construction technique is not critical; I simply wired the components 'point to point', suspended from the back of an Aluminium panel screwed to a wooden base.



73 + Good Homebrew!

Steven VK3MBO

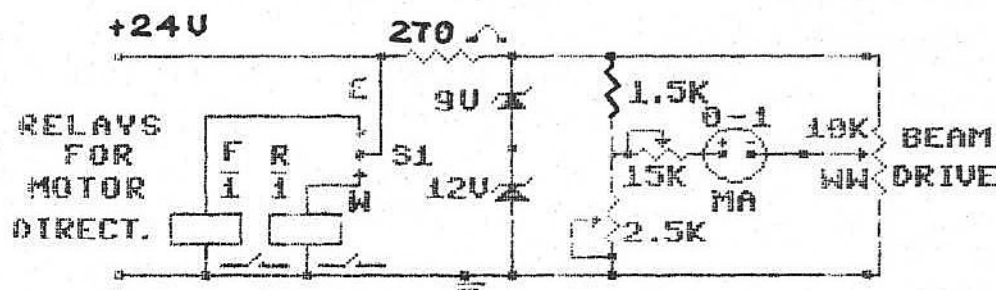
88/12 06

Beam Direction Indicator.

Adjust pots to suit sweep of 0-1 Ma meter. Remove indicator plate from meter, turn over, paint white and mark N.S.E.W. to suit. The 10 K. pot. recommend wire wound.

PARTS REQUIRED.

- 1- 270 OHM 1W Resistor.
- 1- 1.5K OHM 1/2W Resistor.
- 1- 15K OHM Trimpot.
- 1- 2.5K Trimpot.
- 1- 10K Ten turn type, or 10K pot and reduction drive.
- 1- 9V 1W Zener diode.
- 1- 12V 1W Zener diode.
- 2- Relays if required. 24 Volt DC about 1 Amp.



S1 - DIRECTION SWITCH



STAN
UK35E

FOR SALE

1- 3 ELEMENT BEAM 28-21-14 Mhz.
Model CA33. \$150.

1- 30 Amp. POWER SUPPLY KIT.
600va transformer, pcb kit, transistors etc. \$235.

STAN - UK35E. PH. 053-322340.

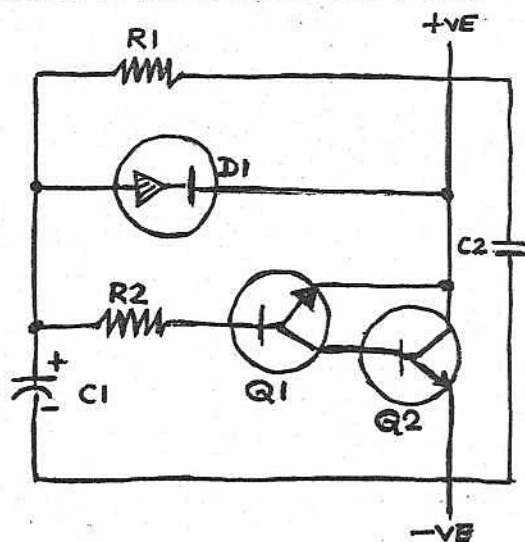
COMMERCIAL MOBILE HF WHIPS. 80-20-10 m & 70 cm.
Mount available.

YASEU FT 227 RB 2M FM Digital 10 Watts mobile.
Service & owners manual. \$400.

ERNIE - UK3DET. PH. 317666. A.H.



Time delay switch for auto (internal light)
Switch is placed across door switch.



- $R1 = 15K \frac{1}{2}W \ 5\%$
 $R2 = 820\Omega \frac{1}{2}W \ 5\%$
 $C1 = 47 \text{ Mfd } 16V \text{ Elec't.}$
 $C2 = .47 \text{ Mfd.}$
 $D1 = EM401$
 $Q1 = 2N3638$
 $Q2 = 2N3055$

Delay may adjusted by varying C1.

88/1208

88/12 07

CQ TEN CONTINUED.

Welcome all to 89 and the long-awaited peak of the sunspot cycle. Ten metres has been mostly up and down, the last few months, along with my yagi.

With the majority of the Pacific Island DX-peditions now over, now is the time to take stock of what has happened.

Having received a card from the Japanese DX-Pedition to Palau I can impart the following information to those that were perhaps fortunate, like myself. Beware! These guys were not using J call signs and as such, the JARL will not handle the out-going QSL's. So an envelope, with 2 IRC's, to be addressed as follows: JA 4 KVD, 69-14 NISHIIBICHO, NAMAMATSU 432. JAPAN and a nice black and white photo of the island will be returned post-haste. (KC6NX etc.)

For those fortunate to have worked six New Caledonian stations there is the "CAGOU" award for stations outside NEW CALEDONIA. Log details only are required for this one and twelve (yes, 12!) the award will be sent back in about four weeks. I personally don't think it is worth it, but your opinion may differ to mine. The address for this one for those interested is as follows A.R.A.N.C., B.P. 3956 NOUMEA, NEW CALEDONIA. As I said I really don't think it is worth the money, but then again, what is these days? Also our IRC purchase price is so much dearer than anywhere else now that makes award chasing such as this out of the question for most people.

I have been having a great deal of success with QRP experiments lately, and my most juiciest prize was a contact into the States using 100 milliwatts. This being the lowest the Icom can go. The next best was a 2 watt contact into Hong Kong, followed by Japan, London, and France all in the one night and all on ten. The antenna used was the five element yagi and also a 5/8th wave vertical was used as a back-up. The challenge and the ensuing contacts were exhilarating to say the least, and more importantly, lots of fun! The lowest power level the more challenge and the higher the exhilaration.

For those interested in the current sunspot activity there are scientist/hams in Los Angeles, that gas-bag regularly around 28.460 +- QRM, and these two are a goldmine of information. i.e. Solar flares, flux counts etc. What's more you don't have to break in just listen. I didn't get their calls but you'll know them when you hear them. As both gentlemen were retired the comparisons between this peak and the last were fascinating to say the least.

Also for those interested the official station of the UNITED NATIONS, 4U1UN is again active on ten. This station is of course based in New York and is always the subject of pile-ups but definitely worth the wait I feel. It is a monster station but very kind to VK/ZL. QSL via NA2k. For this one if you were lucky enough. VK9ZM, Mellish Reef DX-Pedition is still active on ten. Their current QTH is unknown to me I think it is Willis Is. For those who were lucky enough the direct QSL address is: via NM2L, MR. GREGORY R POTTER, R.F.D. BOX 395, CENTRAL SQUARE, NEW YORK. 13036. USA., with the usual 2 IRC's should produce the magic card. Another rare, but active call has been 3D2HO. The operators name is Hamish and his home call is GØGLJ via the buro only for this one as I have no direct ad on this one. He is staying in the capital of Suva, and should be there for about another two weeks. For those lucky enough to work the Vietnam 3W expedition latest intelligence tells me all cards are being processed and should be sent shortly. The address was in ARA.

Also on the DX front keep an ear out for 2 metre openings. Before Christmas there was a very nice opening for about five hours. The frequency to listen to is 146.900, for us Smeaton. The boys in Adelaide got a link going between there and Melbourne. I was keying Mt. Gambier on one watt. Terrific stuff. It was great fun and I always keep an ear out for inversions.

On the darker side of things I received a QSL from a LX station demanding IRC's or greenstamps for his QSL. He regarded his station as a "DX" one. Ladies and gentleman at last count Luxembourg had well over 50,000 c.b.ers let alone hams, boy did this guy have a nerve! I wrote back to the gentleman and keeping the ham oath in mind proceeded to inform him of the difference in postage rates and IRC rates compared to the rest of the world, here's hoping that will cure his arrogance, but I did get the card and that's what matters I guess! DX is just starting to pick up again after the solar flares of the last couple of weeks, so keep an ear out and most of all ENJOY...73's

VK3PSD Paul

88/12 09

FOR SALE

	<u>PRICE</u>
1. ICOM IC - 735 H.F. All brand transceiver Used 5 months. New condition	\$1,600.00
2. Yaesu , FL - 110. All brand linear amplifier	\$ 150.00
3. Oskerblick S.W.R. 200 S.W.R. meter	\$ 60.00
4. Tokyo - Universal HC - 75, Antenna Turner	\$ 40.00
5. D.S.E. High Power V.H.F. Linear amplifier	\$ 220.00
6. Dick Smith V.K. Power Master Kit	\$ 100.00
7. Electronphone T x 470 U.H.F. C.B. Transceiver	\$ 350.00
8. Oskerblick U.H.F. C.B. S.W.R. meter	\$ 100.00
9. HANSEN FS - 98 S.W.R. meter ; 2m - 6m CB	\$ 50.00

-000-

Equipment from DECEASED ESTATE
of David KV3 C.W.C.

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FOR SALE.

6M Transceiver (Value) with power supply.
Can be used with any H.F rig. \$70-00.
Contact Ian VK3AXH. 31 4045 B.H

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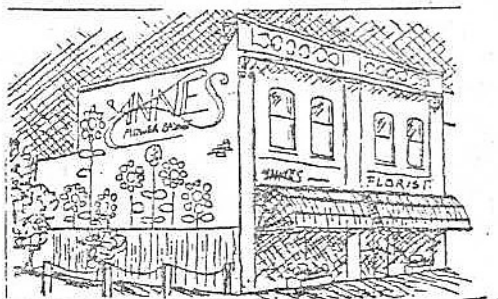
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88/12 12

FUNDAMENTAL FREQUENCY OF CRYSTALS FOR 2 METRE F.M.

SIMPLEX TX	Channel	MHz.	PHILIPS			ICOM		PHILIPS		HEPBURN		PREMIER	VINTEN MTR30	S.T.C. MTR151B	OVERLAND FM706 FM738	A.W.A. 25M
			(kHz.)	(kHz.)	(kHz.)	(kHz.)	(kHz.)	(kHz.)	(kHz.)	(kHz.)	(kHz.)					
RX	40	146.00	18250.00	18250.00	18250.00	18250.00	18250.00	18250.00	18250.00	12106.66	12106.66	12166.66	8111.11	6083.33	6083.33	5407.40
	49	146.45	18306.25	18306.25	18306.25	18306.25	18306.25	18306.25	18306.25	12204.16	12204.16	12204.16	8136.11	6102.08	6102.08	5424.07
	50	146.50	18312.50	18312.50	18312.50	18312.50	18312.50	18312.50	18312.50	12208.33	12208.33	12208.33	8138.88	6104.16	6104.16	5425.92
	51	146.55	18318.75	18318.75	18318.75	18318.75	18318.75	18318.75	18318.75	12212.50	12212.50	12212.50	8141.66	6106.25	6106.25	5427.77
	52	146.60	18325.00	18325.00	18325.00	18325.00	18325.00	18325.00	18325.00	12216.66	12216.66	12216.66	8144.44	6108.33	6108.33	5429.62
	53	146.65	18331.25	18331.25	18331.25	18331.25	18331.25	18331.25	18331.25	12220.83	12220.83	12220.83	8147.22	6110.41	6110.41	5431.48
	61	147.05	18381.25	18381.25	18381.25	18381.25	18381.25	18381.25	18381.25	12254.16	12254.16	12254.16	8169.44	6127.08	6127.08	5446.29
	62	147.10	18387.50	18387.50	18387.50	18387.50	18387.50	18387.50	18387.50	12258.33	12258.33	12258.33	8172.22	6129.16	6129.16	5448.14
	40	146.00	33825.00	33825.00	33825.00	33825.00	33825.00	33825.00	33825.00	45100.00	45100.00	33825.00	33825.00	67650.00	33825.00	33825.00
	49	146.45	33937.50	33937.50	33937.50	33937.50	33937.50	33937.50	33937.50	45250.00	45250.00	33937.50	33937.50	67875.00	33937.50	33937.50
	50	146.50	33950.00	33950.00	33950.00	33950.00	33950.00	33950.00	33950.00	45266.66	45266.66	33950.00	33950.00	67900.00	33950.00	33950.00
	51	146.55	33962.50	33962.50	33962.50	33962.50	33962.50	33962.50	33962.50	45283.33	45283.33	33962.50	33962.50	67925.00	33962.50	33962.50
REPEATER TX	52	146.60	33975.00	33975.00	33975.00	33975.00	33975.00	33975.00	33975.00	45300.00	45300.00	33975.00	33975.00	67950.00	33975.00	33975.00
	53	146.65	33987.50	33987.50	33987.50	33987.50	33987.50	33987.50	33987.50	45316.66	45316.66	33987.50	33987.50	67975.00	33987.50	33987.50
	61	147.05	34087.50	34087.50	34087.50	34087.50	34087.50	34087.50	34087.50	45450.00	45450.00	34087.50	34087.50	68175.00	34087.50	34087.50
	62	147.10	34100.00	34100.00	34100.00	34100.00	34100.00	34100.00	34100.00	45466.66	45466.66	34100.00	34100.00	68200.00	34100.00	34100.00
	1 In	146.10	18262.50	18262.50	18262.50	18262.50	18262.50	18262.50	18262.50	12175.00	12175.00	12175.00	8116.66	6087.50	6087.50	5411.11
	2	146.20	18275.00	18275.00	18275.00	18275.00	18275.00	18275.00	18275.00	12183.33	12183.33	12183.33	8122.22	6091.66	6091.66	5414.81
	3	146.30	18287.50	18287.50	18287.50	18287.50	18287.50	18287.50	18287.50	12191.66	12191.66	12191.66	8127.77	6095.83	6095.83	5418.51
	4	146.40	18300.00	18300.00	18300.00	18300.00	18300.00	18300.00	18300.00	12200.00	12200.00	12200.00	8133.33	6100.00	6100.00	5422.22
	5	146.15	18268.75	18268.75	18268.75	18268.75	18268.75	18268.75	18268.75	12179.16	12179.16	12179.16	8119.44	6089.58	6089.58	5412.98
	6	146.25	18281.25	18281.25	18281.25	18281.25	18281.25	18281.25	18281.25	12187.50	12187.50	12187.50	8125.00	6093.75	6093.75	5416.66
	7	146.35	18293.75	18293.75	18293.75	18293.75	18293.75	18293.75	18293.75	12195.83	12195.83	12195.83	8130.55	6097.91	6097.91	5420.37
RX	Repeater 1 Out	146.70	34000.00	34000.00	34000.00	34000.00	34000.00	34000.00	34000.00	45333.33	45333.33	34000.00	34000.00	68000.00	34000.00	34000.00
	2	146.80	34025.00	34025.00	34025.00	34025.00	34025.00	34025.00	34025.00	45366.66	45366.66	34025.00	34025.00	68050.00	34025.00	34025.00
	3	146.90	34050.00	34050.00	34050.00	34050.00	34050.00	34050.00	34050.00	45400.00	45400.00	34050.00	34050.00	68100.00	34050.00	34050.00
	4	147.00	34075.00	34075.00	34075.00	34075.00	34075.00	34075.00	34075.00	45433.33	45433.33	34075.00	34075.00	68150.00	34075.00	34075.00
	5	146.75	34012.50	34012.50	34012.50	34012.50	34012.50	34012.50	34012.50	45360.00	45360.00	34012.50	34012.50	68025.00	34012.50	34012.50
	6	146.85	34037.50	34037.50	34037.50	34037.50	34037.50	34037.50	34037.50	45393.33	45393.33	34037.50	34037.50	68075.00	34037.50	34037.50
	7	146.95	34062.50	34062.50	34062.50	34062.50	34062.50	34062.50	34062.50	45426.66	45426.66	34062.50	34062.50	68125.00	34062.50	34062.50